

[0009] It is a further object of this invention to provide a simple means to attenuate the intensity of the light received by the bundle of fiber optic fibers.

Brief Description of Drawings

[0012] Figure 2 depicts the vertical movement of the light source relative to the fiberoptic assembly.

[0013]

[0015] Figure 2 details an arrangement wherein a point source light radiator 4 is placed inside the cylinder 2 on its vertical axis. The vertical dimension of the cylinder has a nominal height that results in a minimum angle of 60 degrees with a horizontal plane through the light source. (A design tradeoff exists between the amount of increased light from a larger capture area and the manufacturing ease and cost of additional optical fibers.) The radiated light energy impinges on the inner surface of the cylinder and is collected by the optical fibers. Conventional optical cable is subsequently employed to conduct the gathered light to illuminate any object of interest.

[0016] Various vertical positioning mechanisms can be employed to alter the vertical relationship of the cylinder to the light radiator to achieve any desired light attenuation characteristic.